



Gamma-ray Large Area Space Telescope Mission Status

***GLAST User's Group Meeting
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GLAST Mission Status



Gamma-Ray Large Area Space Telescope

GLAST

- ◆ **Observatory integration nearly completed. All flight components integrated except multi-mode transponders. Flight battery & solar arrays are integrated later per the I&T plan.**
 - Initial baseline observatory Comprehensive Performance Test completed. Primary and redundant sides tested.
 - Solar array fabrication, assembly and environmental test completed. Solar arrays are ready for integration.
 - Flight battery fabricated and in the process of being activated for delivery late summer.
 - Spacecraft flight C&DH completed and integrated onto spacecraft.
- ◆ **Observatory Environmental Testing is underway. Electromagnetic Interference (EMI)/ Electromagnetic Compatibility (EMC) began last week.**
 - Observatory self compatibility in launch mode and science mode (A side) completed.
 - EMI/EMC testing will continue through June.
- ◆ **Flight Operations simulations and ground test preparations continue to progress.**
 - Completed successful interface tests with TDRSS Compatibility Test Van (CTV) and Universal Space Network (USN).
 - The first of several formal End-to-End tests executed.
 - Completed three launch and early orbit simulations.



Schedule



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- ◆ Official Launch Readiness Date (LRD) remains 12/14/07.
- ◆ KSC has indicated significant delays in the completion of Delta IIH 1st and 2nd stages. KSC has requested United Launch Alliance provide information supporting readiness for 12/14/07 LRD
- ◆ General Dynamics has encountered several significant issues that have resulted in erosion of schedule reserve. Currently projecting a January 2008 launch date. NASA has requested a recovery plan from General Dynamics to address steps to be taken to improve schedule performance.
- ◆ Potential schedule threats include:
 - MMT rework - need to complete retest of 1st unit, perform MMT swap in EMI chamber, rework and retest second unit and install onto observatory.
 - Complete environmental test program in a timely fashion.
 - Complete audit of as built parts list to ensure suitability for mission.
 - SIRU part stress as a result of EGSE issue.
 - RWA qualification concern stemming from TIMED on-orbit failure of similar unit.
- ◆ The GLAST Project and General Dynamics will continue to aggressively manage the schedule and actively mitigate potential threats.



Forward Plan



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Gamma-Ray Large Area Space Telescope

- ◆ Complete observatory environmental test program.
 - Electromagnetic interference/compatibility (June)
 - Acoustics, vibration, shock (July/August)
 - Thermal/vacuum & thermal balance (August/Sept)
- ◆ Complete End-to-End test program.
- ◆ Mission Operations Review planned for Sept.
- ◆ Conduct numerous launch simulations.
- ◆ Ship to launch site (mid-Oct).
- ◆ Conduct launch site campaign
- Launch in December 2007... Science Operations begin within 60 days ... the high-energy gamma-ray universe opened dramatically for exploration.



Large Area Telescope (LAT)

